

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-10 (cancelled)

11. (currently amended) A process for production of a drop forged part made of a metal alloy containing 80 wt. % or more Ti and/or Zr and/or Hf, wherein the drop forged part during deforming is:

heated within the range of 5-15 °C [[K]] above the α / β phase boundary to form β phases and is

subsequently cooled.

12. (previously presented) A process according to Claim 11, wherein said drop forged part is a moving part of a motor.

13. (previously presented) A process according to Claim 11, wherein said drop forged part is a connecting rod, crankshaft, camshaft or a valve.

14. (previously presented) A process according to Claim 11, wherein the material is heated for 20-60 minutes.

15. (previously presented) A process according to Claim 11, wherein the relaxation thermal treatment occurs at 600-700 C after cooling.

16. (previously presented) A process according to Claim 11, wherein the E-modulus and the rigidity of the Ti and/or Zr and/or Hf containing materials, or alloys thereof, are increased.

17. (previously presented) A process according to Claim 11, wherein the alloy is a titanium alloy containing 1-20 wt. % Zr and/or Hf and optionally incidental amounts of other light or heavy metals.

18. (previously presented) A process according to Claim 11, wherein the alloy is a titanium alloy containing 5-15 wt. % Zr and/or Hf and optionally incidental amounts of other light or heavy metals.
19. (previously presented) A process according to Claim 11, wherein the alloy is a titanium alloy containing 90 wt. % titanium.
20. (previously presented) A process according to Claim 11, wherein the alloy is a titanium alloy selected from Ti Al 6 V 4 and Ti Al 6 Fe2 Si.
21. (previously presented) A process according to Claim 11, wherein an α / β micro structure or composite material is formed.
22. (previously presented) A process according to Claim 11, wherein the drop forge part after forging is slowly cooled in air.
23. (currently amended) A drop forged part made of a metal alloy containing 80 wt. % or more Ti and/or Zr and/or Hf, made by a process comprising:
- heating, during deforming, within the range of 5-15 °C [[K]] above the α / β phase boundary to form β phases; and
- subsequently cooling.
24. (previously presented) A drop forged part as in claim 23, wherein said part is a connecting rod, a crankshaft, a camshaft or a valve part.
25. (currently amended) A drop forged part made of a metal alloy containing 80 wt. % or more Ti and/or Zr and/or Hf, made by a process comprising:
- heating, during deforming, within the range of 5-15 °C [[K]] above the α / β phase boundary to form β phases; and
- subsequently cooling in such a manner that the E-modulus is increased.